

CLAIMS

What is claimed is:

- 1 1. A method comprising:
2 converting bytecodes into a graph of jop objects to track where jump
3 operations pointed before modification of said bytecodes;
4 adjusting constant pool references from local to global numbers based on
5 said graph; and
6 combining said bytecodes into a bundle.
- 1 2. The method as in claim 1 wherein adjusting further comprises:
2 combining redundant constant pool entries to form a single global
3 constant pool entry in a shared constant pool within said bundle.
- 1 3. The method as in claim 2 wherein one of said global constant pool
2 entries is a methodref entry and an element identified by said global constant
3 pool entry is a method copied to said bundle.
- 1 4. The method as in claim 2 wherein one of said global constant pool
2 entries is a fieldref entry and an element identified by said global constant pool
3 entry is a field copied to said bundle.s
- 1 5. The method as in claim 1 further comprising:
2 performing a validation to insure that all constant pool references are
3 properly resolved within said bundle.

1 6. An article of manufacture containing a sequence of code which, when
2 executed by a machine, cause said machine to perform the operations of:
3 converting bytecodes into a graph of jop objects to track where jump
4 operations pointed before modification of said bytecodes;
5 adjusting constant pool references from local to global numbers based on
6 said graph; and
7 combining said bytecodes into a bundle.

1 7. The method as in claim 1 wherein adjusting further comprises:
2 combining redundant constant pool entries to form a single global
3 constant pool entry in a shared constant pool within said bundle.

1 8. The method as in claim 2 wherein one of said global constant pool
2 entries is a methodref entry and an element identified by said global constant
3 pool entry is a method copied to said bundle.

1 9. The method as in claim 2 wherein one of said global constant pool
2 entries is a fieldref entry and an element identified by said global constant pool
3 entry is a field copied to said bundle.s

1 10. The method as in claim 1 further comprising:
2 performing a validation to insure that all constant pool references are
3 properly resolved within said bundle.